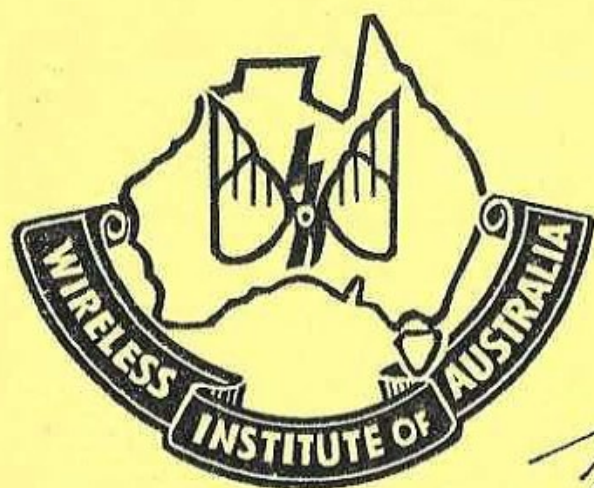


86/03 01



B.A.R.G. NEWS

MAR. 86

NOTE NEW MEETING
DATES. SEE PAGE 5

BUILD A DELTA LOOP
NEED A FIELD STRENGTH METER?
ALL THIS AND MORE IN THIS ISSUE.



© Monthly Newsletter of the
Ballarat Amateur Radio Group

83/03 02
86/03

COMMITTEE

B.A.R.G. OFFICERS 1985-1986

			<u>HOME</u>	<u>BUSINESS</u>
President.	Lou Iaquinto.	VK3 DFI	49 2200	Ext.241 After 4.30
Vice President	Geoff Smith.	VK3 ADB	32 1037	
Secretary	Jim Wright.	VK3 CFB	32 7563	
Asst. Secretary	Dick Forrester.	VK3 VU	35 7663	39 1001
Treasurer	Harry Hekkema.	VK3 KGL	35 7563	39 1001
Technical Officers	Phil Seddon	VK3 AQK	31 5220	31 3166
	Ian Robinson.	VK3 BTX	32 4139	
	Maurie Batt.	VK3 XEX	42 2245	
	Dick Antosiewicz.	VK3 AEX	32 3273	31 1818
Q.S.L. Manager	Cliff Bilston.	VK3 PAF	35 8048	
Awards Manager	Maurie Batt.	VK3 XEX	42 2245	
Publicity Officer	John Hazledine.	VK3 CFH	39 1971	
Education Officer	Bob Terrill.	VK3 BNC	39 5317	39 1001
Property Officer	Dick Antosiewicz.	VK3 AEX	32 3273	31 1818
Newsletter Committee.	Dick Forrester.	VK3 VU	35 7663	39 1001
	Fred Quick.	VK3 NIH	32 3216	32 6455
	Ron Watkins.	VK3 XOA	35 6017	32 1447
	Henry Moritz.	VK3 DXC	35 5130	
Net Co-ordinator	Fred Quick.	VK3 NIH	32 3216	32 6455
W.I.C.E.N. Committee	Dick Antosiewicz.	VK3 AEX	32 3272	31 1818
	Geoff Smith.	VK3 ADB	32 1037	
	Dick Forrester.	VK3 VU	35 7663	39 1001
Committee	Neil Davidson.	VK3 KQQ	35 9612	
	Peter Kenyon.	L30037		
	Evonne Wroe.		42 4376	

B.A.R.G. Meets the LAST FRIDAY of every month at the
BALLARAT EDUCATION CENTRE, Hopetoun Street. at 7.30 p.m.
All Correspondence to P.O. Box 216E Ballarat East. 3350 Vic.

Awards Manager, VK3-XEX, R.S.D. Rokewood Junction. Vic.

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MINUTES OF GENERAL MEETING 28th FEBRUARY 1986.

MEETING OPENED at 8.00pm by President Lou DFI who welcomed all members and visitor Daryn.

APOLOGIES XEX, VU, PAF, CFH, SE, NIZ.

MINUTES of previous meeting as printed were confirmed. DOK/KQF.

CORRESPONDENCE Letter from Ron XOA. (See News Letter report)

QSL MANAGER Cliff is recovering from an operation but submitted a report that 124 cards were received and 364 sent out. Thanks Cliff, we all hope you are feeling better.

NET CO-ORDINATOR Fred would like more members to participate if only for a short period.

EDUCATION OFFICER Bob reported that only one application was received for the novice course so this has been cancelled.

TREASURERS REPORT General a/c \$786.59. VS&L a/c \$1131.01.

NEWS LETTER. Ron XOA submitted a written report in which he stated that it was impossible to continue the News Letter unless more material was submitted for publication. A motion was moved by Bill DWJ seconded by Murray AAI that the News Letter be published quarterly. This motion was lost. It was then resolved that members would try to rectify the situation as the News Letter was an integral part of the Club which should not be allowed to lapse. SO PLEASE SEND ALONG SOME NEWS LETTER MATERIAL IT DOES NOT NECESSARILY HAVE TO BE TECHNICAL, IT CAN BE HUMOROUS, PHILOSOPHICAL, CRITICAL OR MAYBE JUST AN ADVERT FOR THAT SURPLUS GEAR YOU WANT TO DISPOSE OF. You can send your contributions to Ron XOA, Dick VU or myself.

REPEATER Dick V.U. gave a rundown on progress of new repeater and presented a balance sheet of costing.

HAMVENTION 1986 A general discussion was held on ways to improve the 1986 Hamvention following Dick VU's report in the previous News Letter. Many suggestions came forward and it was decided to cancel the dinner in favour of a Bar-B-Que on the Saturday night. Murray AAI will be the Convener this year and will be looking for committee members in the near future.

LADIES AUXILLIARY a vote of thanks was passed to the Ladies for a most enjoyable 'Eggars Banquet' and to Neal and his XYL for the use of their home on that evening.

GENERAL BUSINESS. The John Moyle contest will be held at Trewalla on March 15th and 16th. Operators needed.

The Annual Junk Sale will be held at the May meeting.

MEETING CLOSED at 9.05pm.

73s Jim CFB.

NEXT GENERAL MEETING Friday 21st March. NOTE CHANGED DATE.

COMMITTEE MEETING Wednesday 16th April.

WESTERN ZONE MEETING at Lake Bolac Hotel 22nd March.

83/03 04

LADIES

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B.A.R.G. LADIES COMMITTEE

The Beggars Banquet

A feast fit for a King, more than a Beggar was placed out before us. The lucky people who attended the Banquet were well catered for. Thirty people of all ages attended.

We have a special Thank You to Gwen and Neil Davidson, for opening their home to us. Much appreciated! A good night was had by all.

MEETING

Next meeting for The Ladies Committee is April 10th 1986.
To be held at Karen Felsteads, Wades Lane, Ross Creek, Napoleans.

AGENDA:- Progressive Dinner. Other Social Activities.

WISHING YOU ALL A SAFE AND HAPPY EASTER

J.F Secretary.

KINKY

KINKY HINTS

If you are an amateur operator with an outside shack and have installed refridgerater as standard equipment then it can be used for other things than keeping 807's at a safe operating temperature!

Those silicone sealers that you use for a multitude of sealing jobs can be kept in the fridge; this prevents them from going hard thus wasting all those finished tubes. They also don't need a plug in the end. Suck it and see!!!

In the fringe area of Melbourne television reception around the Ballarat area people go to great lengths to improve reception. If YOU are thinking of installing a booster amplifier at the mast-head then take heed. There is one that the "ricky bloke" sells and several described in electronics publications that the author has tried. I learnt the hard way: FORGET IT!!

These boxes are wider than the widest barn door and will only result in incurring the wrath of your household and that of the neighbors every time you reach on the box to play radio.

As good advice select a commercially made unit specifically designed for fringe area reception that covers channels 7-11 only. (e.g. Kingray MH 20HP7 or similar)

If you have one of the earlier mentioned boxes then send it to some-one interstate or use it as a paperweight. If you are really keen then you could install a very good bandpass filter close to the input - frankly the cost of a good unit and the tripe one sees on the idiot box doesn't warrant messing about... Think about it!

THE PREZ SEZ...

~~82/03~~ 05
86/03

ATTENTION ALL MEMBERS

The March meeting will be held on 21 March because of Good Friday falling on the last Friday of the month. We were unable to book a visit to the Observatory so the meeting will be held at the usual location with a talk on Amateur Satellites being planned for the evening.

The April meeting will be held on the 18th of April due to ANZAC Day falling on the 25th. Bring your gear to this meeting as test equipment will be available to test your rig.

Now that you're all totally confused, the May meeting will be held on the last Friday of the month. BRING YOUR JUNK TO THE MAY MEETING.

73,
Lou - VK3DFI

TWO METRE FM BAND PLAN — 146-148MHz

Sub-bands	Recommended use for specific channels
Repeater inputs 146.025 - 146.400 Repeater outputs 146.625 - 147.000 (16 channels)	50 kHz channels to be preferred where available
Simplex 146.425 - 146.600 (8 channels)	146.500 calling channel (National) 146.450 } 146.550 } Primary voice 146.600 RTTY (National)

* RTTY channel is an exception to the recommended rule of allocating special purpose nets above 147 MHz as it is a well established and populated channel.

147 - 148 MHz Local or Special Purpose (voice or data).

Sub-bands	Recommended use for specific channels
Repeater inputs 147.625 - 147.975 Repeater outputs 147.025 - 147.375 (15 channels)	147.300/147.900 ATV liason (National) 147.325/147.925 147.350/147.950 RTTY (National)
Simplex 147.400 - 147.600 (9 channels)	147.400 } ATV liason 147.425 } 147.450 ATV/SSIV/FAX 147.475 SSIV/FAX liason 147.550 Micro net 147.575 } 147.600 } Data Packet

NOTE: 144.600 - 145.700 MHz is also available for FM operation. However, FM operation in the segments 144.000 - 144.600 MHz (narrow band modes) and 145.700 - 146.000 (satellites) is not in accordance with the MHz Band Plan.

The FM 2 metre band plan is submitted for the information of all members. A number of local stations have been operating FM simplex above 145.700 in the middle of the satellite band. Please avoid 145.700 to 146.000 for FM simplex QSOs.

73,
VK3DFI

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06

FRED'S PAGE

86/03 06

TO ALL THE MEMBERS OF THE BALLARAT AMATEUR RADIO CLUB.

As net co-ordinator for this club, I would like to ask you all for your support on the 80 meter net.

Each week, the club net meets on 3.610 MHZ at 8.30 PM local time. If each member could call in for half an hour, what a great rollup this would be. But I suppose that is asking to much...

So please spare some time for the club net. It is your net as you are a member. The call in stations are working towards the club awards, so please help them?.

I have enjoyed my time as net co-ordinator but if nobody is prepared to call in and help, the net will cease to work...

73's VK3KQF Fred.

To the members of the Ballarat Radio club..

I hope you all read your latest magazine from the WIA page 49, I see that the WICEN group want to move their call freq from 3.600 to 3.605 or 3.610...

NOW...., I do not want to lose 3.610 which is the club net freq, as we have been using this spot for the last 4 years. But if club members do not feel like calling in to the club net and help club awards get off the ground, well let them take the frequency and do not have a net.

73's Fred VK3KQF
Net Co-ordinator.

for sale

HOMEBREW SS.TV. MONITOR, AS DESCRIBED IN A.R.A. \$50*

YAESU MOBILE ANT. SYSTEM 2m STUB + 10m RESONATOR \$20*

* WILL HAGGLE

RON VK3XOF
PH (01) 920017
(M) 321447

About twelve months ago I decided to put up a delta loop on 80 metres. The October 84 issue of QST had an article that provided the necessary information and stimulation. A large pine tree in my backyard was just begging to have some wire hanging from it. The overall dimension of the 80 metre loop is 86.29 metres and was cut for the lower end of the band (3.550). The formula is 1005 divided by the frequency in megahertz. This will give you the length in feet. Feet times 0.3048 will convert feet to metres. The apex of my loop is about sixty feet. The loop slopes out from the support (pine tree) to about ten feet above ground. I feed it from one corner of the triangle similar to the configuration at (D) in Figure 1.

To match the loop I used a Q section which is a quarter-wave length of 75 ohm coax (Belden RG-59/U). The calculation for the Q section is length in feet = 246 times V divided by the frequency in megahertz, where V is the velocity factor of the coaxial line being used for the Q section. The velocity factor of Belden Rg-59/U is .79. In my example the length of the Q section is $246 \times .79 = 194.34$ divided by 3.550 = 54.74 (feet). 54.74 (feet) times .3048 = 16.69 metres of Belden RG-59/U.

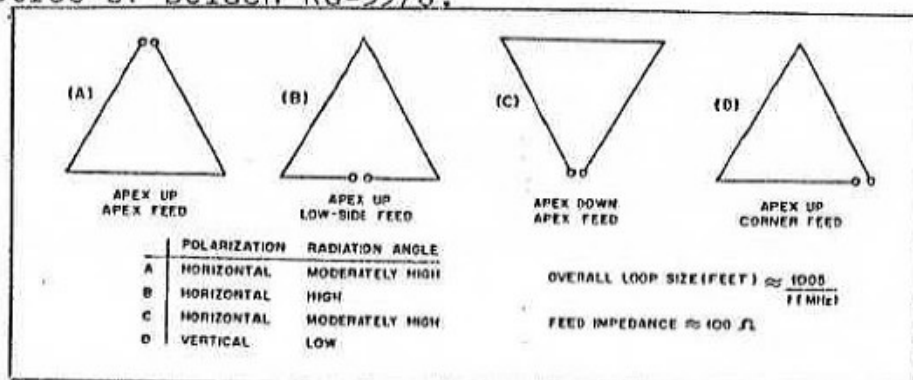


Fig. 1 — Various configurations for a full-wave Delta loop. Radiation angles and polarization are affected by the feed-point placement and location of the apex.

This antenna has worked extremely well for both DX and local contacts. I was so pleased with its performance that I decided to put up a second full wave loop—this time for the 40 metre band. The 40 loop is mounted similarly to configuration (C) in the above diagram. If you don't like using the Q section you could feed it with open wire feeder and use it as a multi band antenna. Although I haven't tried it yet, the 80 metre loop, if opened at the apex and fed with open wire feeder, would act as a quarter wave on 160.

All in all the loop seems to perform well even at low height. It is a quiet antenna and could be a good choice if you live in a noisy location. I think one for 20 metres will be going up at my place shortly, give one a try.

Lou - VK3DFI

Reference; "THE FULL-WAVE DELTA LOOP AT LOW HEIGHT," by Doug DeMaw, W1FB and Lee Aurick, W1SE. October 1984 QST pg. 24.

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08

CLIFF SEZ...

86/03

DX ?? What is that, you hear this all the time around the bands. Well I don't know that this is altogether true, as some of the cards that I sort for the buro sure say the opposite. There has been a few that I think most of us would like to work at some time or another.

I thought that 10 meters was dead, but as I have had a few days off work with a bung wing, and having seen the cards that went through, I spent a while listening and calling around 10, and much to my delight have worked some of my old friends from ZL and USA, not to mention one or two of the Pacific islands.

I just had a short break to work a couple of VE's, VE7UD, and VE7EJT both of these stations being Q 5, so as I say things are on the up and up by the look of it. Also the new calls 7J3 are being used now, as I worked 7J3AAB Ron from Kobe the day before 2nd.3.86.

One station that has been around for a while is the Childrens A, R. station of Fujian, C.R.S.A. CHINA. And if you worked this one, it's QSL information is P.O. Box 209 FUZHOU CHINA. (BY5RF)

I have noted that a few cards have been going through for VK3ND, BoB on Norfolk, please if you wish to QSL BOB do it direct as the Buro will just send them back.

Well if you have worked some of these calls then the QTH'S listed may be of use to you.

- 3D6BU....P.O. Box 64 Manzini, Swaziland.
- 9N1RNK...P.O. Box 634, Kathmandu, Nepal.
- A4XZF....P.O. Box 981, Muscat, Oman.
- BY4AOM...P.O. Box 38, Guzhong, Chengdu. China.
- BY5RF....P.O. Box 209, Fuzhou, China.
- BY8AOM...P.O. Box 227, Shanghai, China.
- S79CW ...P.O. Box 4, Mahe, Seychelles.
- VI5IYY...(International Year of Youth) P.O. Box 937, Port Lincoln SA, 5606.
- ZL80Y....Kay Hannington, The Terrace, Warrington, Otago. New Zealand.

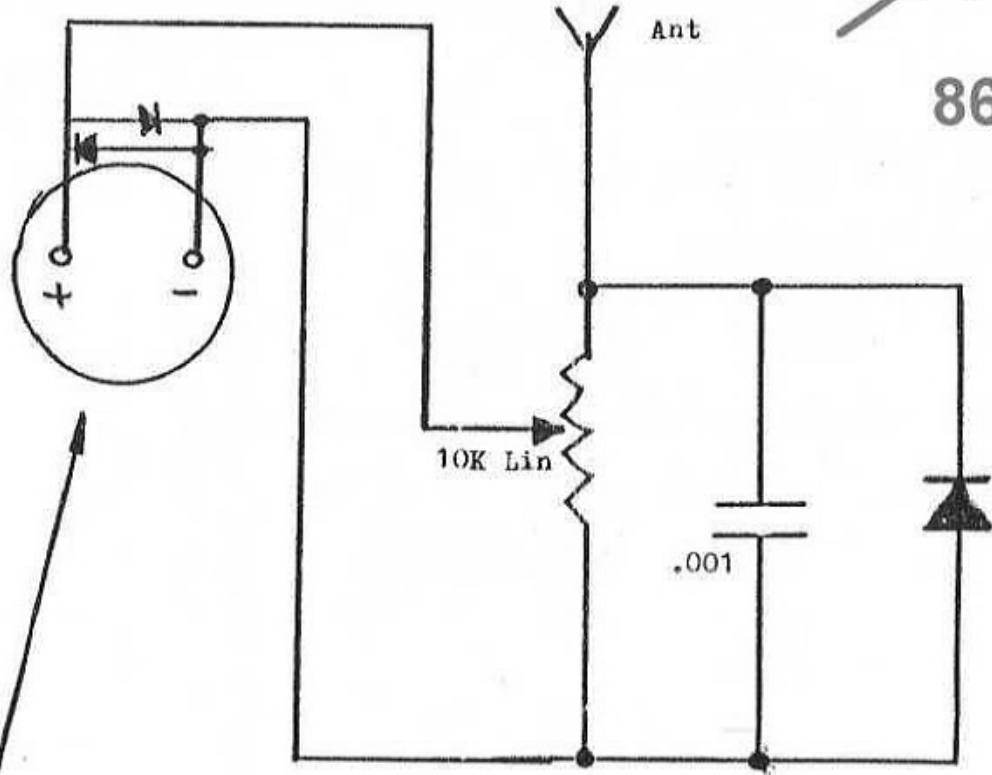
Yours in Fellowship

Cliff VK3PAF (still)

~~83/03~~

09

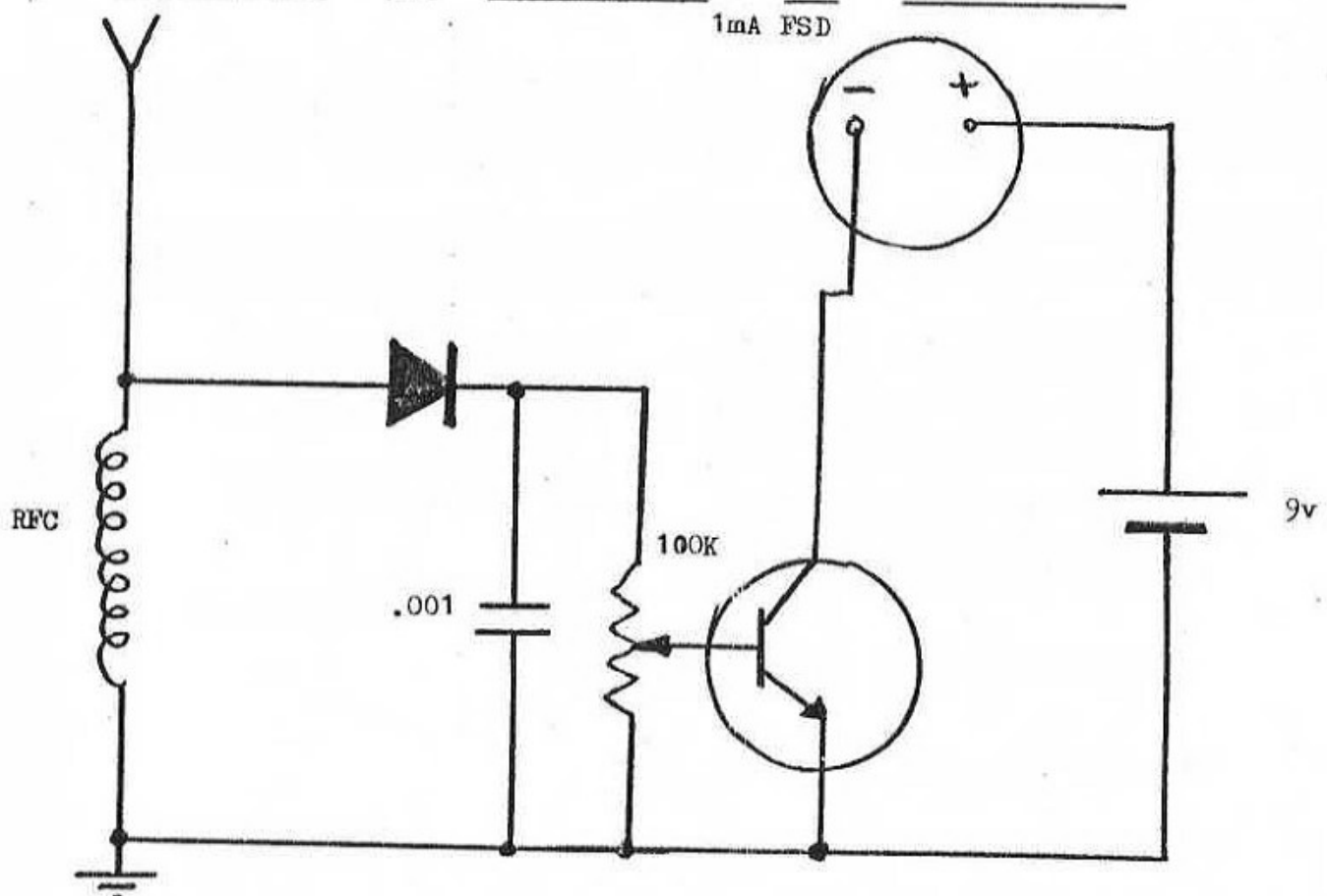
86/03 09



50 uA meter
e.g. Cassette recorder
level meter

Any small signal diode will do but don't
use power diodes.

1mA FSD



NOTES: (a)
(b)
(c)

Any NPN transistor will do.
Use only small signal (not power) diodes
No switch is needed as when the pot is at the
earthy end the transistor is biased off so
there is negligible circuit current.

Cheers Bud Foley VK3NFZ

10
8/3/03 10
WANTED - FOR THE BETTERMENT OF THE HOBBY

WANTED

86/03

Solid state H.F. transceiver
80 - 10 Mx Must be suitable for mobile use

Please contact; Des Heenan
12 Simpson St
Ballarat 3350
Telephone 391783 (BH)
326421 (AH)

Two (2) - 1-8-16.7pf AIR VARIABLE CAPS.

RON VK3XOA

WE HAVE WHAT YOU NEED AT...

WECAM
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(053)392808



YAESU

 **ICOM** and others

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COAX, Rotator and L.T. Cable, Plugs and connectors, Transistors
and IC's, Aerials and assorted parts always in stock. Call for
prices and information.

EVERYTHING FROM A TO Z IN ELECTRONICS

DEFINITIONS

"Diplomacy" . . . The ability to tell people to go to hell in such a way that they look forward to the trip.

A food manufacture is going to make a fortune. He's bringing out a breakfast cereal that drains the energy out of children.

Thoughts Of The Days

Every organisation has 4 bones;

The Wish Bone . . . Those that wish somebody else would do it.

The Jaw Bone . . . Those that talk about what should be done.

The Knuckle Bone . . . Those that knock everything that is done.

AND

The Back Bone . . . Those that hop in and do it.

There isn't as much harm in things going in one ear and out the other, as there is in things going in one ear, getting all mixed up, and coming out of the MOUTH.

~~83/03~~ 12

86/03

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